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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/682,024	07/11/2001	Noboru Kamijo	JP920000131US1	JP920000131US1 2679	
75	90 03/31/2004		EXAMINER		
Ido Tuchman		LESPERANCE, JEAN E			
69-60 108th St	reet				
Suite 503			ART UNIT	PAPER NUMBER	
Forest Hills, NY 11375			2674	13	
DATE MAILED: 03/31/		DATE MAILED: 03/31/200	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		09/682,024	KAMIJO ET AL.			
		Examiner	Art Unit			
		Jean E Lesperance	2674			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE I - Exter after - If the - If NO - Failur - Any n	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing indicated part of the provided period for reply will. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)🖂	Responsive to communication(s) filed on 3-1:	<u>5-2004</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
· _	on of Claims					
•	Claim(s) <u>1,3-8 and 10-14</u> is/are pending in the	• •				
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1,3-8 and 10-14</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/o	or election requirement.				
	on Papers	_				
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 11 July 2001 is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.					
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment	c(s)					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal I	r (PTO-413) Paper No(s) Patent Application (PTO-152)			
S Patent and Tr	adamat Office					

Art Unit: 2674

DETAILED ACTION

Claims 1, 3-8, and 10-14 are presented for examination.

Drawings

This application, filed under former 37 CFR 1.60, lacks formal drawings. The informal drawings filed in this application are acceptable for examination purposes.

When the application is allowed, applicant will be required to submit new formal drawings. In unusual circumstances, the formal drawings from the abandoned parent application may be transferred by the grant of a petition under 37 CFR 1.182.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-7 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent # 6,137,479 ("Olsen et al.") in view of U.S. Patent # 6,369,794 ("Sakurai et al.").

As for claim 1, Olsen et al. teach the computer processor Fig.1 (48) corresponding to a display controller for controlling a display position of the pointer on

Art Unit: 2674

the display screen; a computer processor Fig.1 (48) processes the motion sensor signals to control the position of the cursor on the display screen 26 corresponding to a displacement detector for detecting a displacement; and a track ball 70 (FIG. 4B) is mounted on the top of the watch and the track ball 70 is rotated to move the cursor on the display screen 26 corresponding to a pointer moving device for moving the pointer on the display screen based on the detected displacement. Accordingly, Olsen et al. teach all the claimed limitations with the exception of providing the motion of the device itself.

However, Sakurai et al. teach the user wearing a wristwatch-type PDA (Personal Digital Assistance) swings his/her wrist from side to side, latest information is displayed on a display screen of the PDA (column 23, lines 59-62) corresponding to displacement or motion of the device itself. There is a motion detector to sense when a movement occurs.

It would have been obvious to utilize the motion sensor as taught by Sakurai et al. in the programmable computer pointing device disclosed by Olsen et al. because this would allow the user to interact with the GUI without using other means.

As for claim 3, Sakurai et al teach an motion detecting unit Fig.1 (101) where it is including some hardware made of complementary metal-oxide semiconductor corresponding to the image sensor comprising a complementary metal-oxide semiconductor or a charge coupled device.

Art Unit: 2674

As for claim 4, Olsen et al. teach a data port Fig.1 (52) sends and receives data using infrared or radio frequency signals the image sensor comprising an infrared sensor.

As for claim 5, Sakurai et al. teach an operation determining unit includes a storing unit which stores operation indications that each correspond to a type of the user's action (abstract) an operator for activating the image sensor.

As for claim 6, Olsen et al. teach a computer mouse (wristwatch) housing contains the components that perform the traditional computer mouse functions, namely, moving the cursor and selecting items on the display screen the operator further includes the function for directing a selection of an object pointed to by the pointer or for the execution of predetermined processing defined for the object, whereby the operator has a plurality of functions.

As for claim 7, Olsen et al. teach a mouse watch device Fig5 (54) corresponding to the device is of a wristwatch type.

Claims 8 and 10 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent # 6,137,479 ("Olsen et al.") in view of U.S. Patent # 6,111,580 ("Kazama et al.").

As for claim 8, Olsen et al. teach a display for displaying a screen Fig.5 (60); a seat Fig.5 (82) corresponding to a case for supporting the display; a wristband Fig.5 (76) corresponding to an attached belt attached to the case. Accordingly, Olsen et al.

teach all the claimed limitations as recited in claim 8 with the exception of providing a touch sensor.

However, Kazama et al. teach the touch sensor Fig.15 (53) is attached to the watch or set at predetermined position near the watch (For example, pocket of the user's wear in which the watch is included) corresponding to a touch sensor mounted in the case.

It would have been obvious to utilize the touch sensor as taught by Kazama et al. in the programming computer pointing device disclosed by Olsen et al. because this would allow the user to input an indication signal by a simple action.

As for claim 10, Olsen et al. teach a computer processor Fig.1 (48) processes the motion sensor signals to control the position of the cursor on the display screen 26 corresponding to displacement detection section for detecting a displacement of the display; and the motion encoder 24 detects rotation of the roller ball 42 and generates signals that indicate the direction and distance the roller ball 42 moves corresponding to pointer position changing device for changing a display position of a pointer based on the detected results, thereby moving the pointer displayed on the screen.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application

Art Unit: 2674

by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 11-14 are rejected under 35 U.S.C. 102 (e) as being unpatentable over U.S. Patent 6,369,794 ("Sakurai et al.").

As for claim 11, Sakurai et al. teach display such as text on a liquid crystal display panel is scrolled sideways or up and down by a number of pixels corresponding to the calculated travel, or a cursor displayed on the display panel is moved sideways or up and down by the number of pixels (column 1, lines 43-48) corresponding to a first step of taking an image of a physical object facing the device continuously and detecting a relative displacement between the taken object and the display and a second step for changing a display position of the pointer displayed on the display based on the detected displacement.

As for claim 12, Sakurai et al. teach he user action analyzing unit 103 acquires time series data (acceleration curve) 1601 of acceleration levels shown in FIG. 16 from the motion detecting unit 101 and calculates a mean value of a sequence of differential values dv/dt that each represent the amount of change in acceleration level per unit of

time (column 14, lines 32-37) corresponding to calculating a motion vector at a certain place in an image based on the movement of the image that was taken multiple times; and a display such as text on a liquid crystal display panel is scrolled sideways or up and down by a number of pixels corresponding to the calculated travel, or a cursor displayed on the display panel is moved sideways or up and down by the number of pixels (column 1, lines 43-48) corresponding to obtaining a relative displacement between the object and the display based on the calculated motion vector.

As for claim 13, Sakurai et al. a display such as text on a liquid crystal display panel is scrolled sideways or up and down by a number of pixels corresponding to the calculated travel, or a cursor displayed on the display panel is moved sideways or up and down by the number of pixels (column 1, lines 43-48) corresponding to moving the device relative to the object, the relative displacement between the object and the display is obtained by inverting a sign of the motion vector. By moving the device sideways is like inverting the sign of the motion vector.

As for claim 14, Sakurai et al. teach the operation determining unit 104 compares differential mean value D outputted from the user action analyzing unit 103 with a predetermined value to judge whether the user's action belongs to low frequency of slowly swinging the enclosure 303 or high frequency of tapping the enclosure 303 (column 14, lines 63-67) corresponding to generating a time-series moving pattern of a certain place based on a position of the certain place in a principal image and a position of a place corresponding to the certain place in a plurality of other images that were taken apart in time from the principal image and comparing the generated time-series

moving pattern with a plurality of model patterns registered in advance to select a most approximate model pattern; a display such as text on a liquid crystal display panel is scrolled sideways or up and down by a number of pixels corresponding to the calculated travel, or a cursor displayed on the display panel is moved sideways or up and down by the number of pixels (column 1, lines 43-48) corresponding to the second step comprising the steps of changing a display position of the pointer based on a moving pattern that was defined for the selected model pattern.

Response to Amendment

Applicant's arguments filed 3-15-2004 have been fully considered but they are not persuasive. The applicant argued that none of the prior art used to reject the present invention teaches a displacement detector comprising an image sensor, wherein an image sensed by the image sensor is processed to obtain a displacement of the device itself. Examiner disagrees with the applicant because one of the prior art, Olsen et al., teaches a motion sensor in the computer mouse detects the movement of the computer mouse and sends signals to the computer that indicate the direction and the distance the computer mouse moved (column 1, lines 18-22), the watch uses an optical sensor to detects changes in the image displayed on a computer display screen. The changes in the displayed image define the data transferred to the watch (column 1, lines 52-55) corresponding to a displacement detector comprising an image sensor, wherein an image sensed by the image sensor is processed to obtain a displacement of the device itself. The applicant argued that the prior art does not teach a touch sensor mounted in

a case, wherein the touch sensor is provided on both sides of the display. Examiner disagrees with the applicant because the prior art, Olsen et al., teaches the watch includes a pressure sensor 72 (FIG. 4C) which, when pressed, generates signals indicative of the applied pressure. The pressure signals, in turn, are processed to generate signals which control the position of the cursor on the display screen 26 (column 6, lines 5-11) where the examiner interprets the sensor pressure as being a touch sensor on one side of the display 60 and it is inherent to have the pressure sensor on the other side also. The applicant has to amend the claims to be clear and specific in order to overcome the rejection of the prior art of record. Therefore, the rejection is maintained as was rejected previously.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (703) 308-6413. The examiner can normally be reached on from Monday to Friday between 8:00AM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

Jean Legerance

Date 3-29-2004

Art Unit 2674

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600**

Page 10